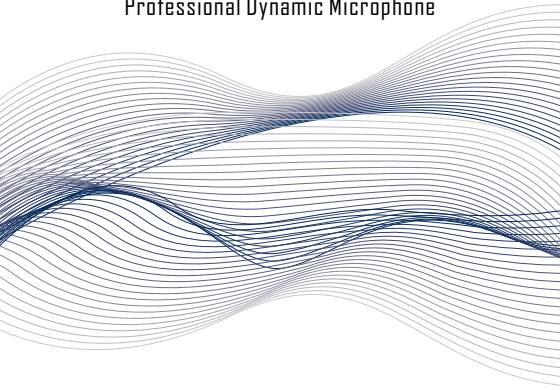


VX-300

Professional Dynamic Microphone

A series of overlapping, wavy, blue lines that create a sense of motion and depth, resembling sound waves or a stylized landscape.

User Manual

Thank you for choosing the Relacart VX-300 Wired dynamic microphone. This manual provides detailed information on the operation, technical specifications, safety precautions, and maintenance. Please read it carefully before use and retain it for future reference.

Overview

The VX-300 is a professional handheld dynamic microphone developed by Relacart Electronics, specifically designed for live vocal sound reinforcement and studio recording. With its balanced and natural tonal response, the VX-300 is also well suited for capturing a wide range of sound sources, including electric guitar amplifiers, brass instruments, drums, and choirs.

Key Features

- All-metal housing construction, a spring steel grille, and a gold-plated XLR-3 connector ensures long-term durability, resisting corrosion and deformation.
- A proven neodymium magnet system, combined with tight manufacturing tolerances and high-quality production processes, delivers excellent sensitivity and consistent audio performance.
- The integrated black windscreen effectively minimizes wind noise and plosives. (Use is optional and may be based on personal preference.)

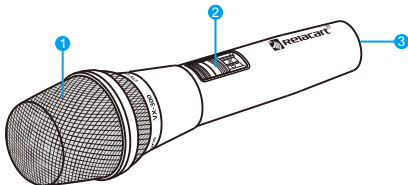
- The unique aluminum voice coil design provides a crisp, open sound with natural reproduction of vocal detail.
- A precision-engineered supercardioid polar pattern effectively isolates off-axis sound sources, improving gain before feedback.
- The capsule features a patented shock-mount system that minimizes handling noise, footfall vibration, and low-frequency rumble.

Packing List

After unpacking, ensure that the following items are included. If anything is missing, please contact the Relacart dealer from whom you purchased the microphone.

- ◆ VX-300 Microphone
- ◆ Microphone Stand Clip
- ◆ Thread Adapter
- ◆ Black Internal Windscreen
- ◆ Pouch
- ◆ User Manual

Component Name

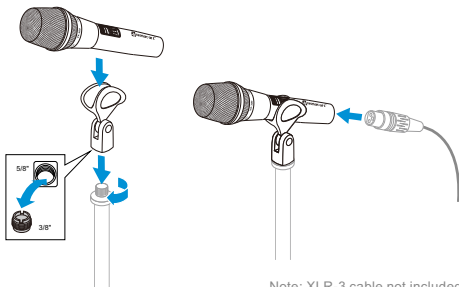


- | | |
|----------------------------|------------------------|
| ① Spring steel mesh grille | ③ XLR-3 male connector |
| ② Magnetic switch | |

Installation

Mounting the Microphone

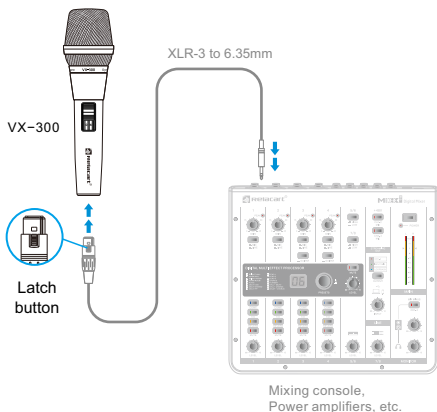
1. Screw the microphone stand clip onto a standard 5/8" threaded stand. For mounting on a 3/8" threaded stand, first screw the supplied thread adapter into the bottom of the clip, then attach it to the stand.
2. Place the microphone into the supplied microphone clip, align it properly, and secure it in place.
3. Connect the female XLR-3 cable to the male XLR-3 connector on the bottom of the microphone until the locking latch clicks into place.
4. To disconnect the microphone from the XLR-3 cable, hold the connector, press the locking latch, and gently pull the cable out.



Note: XLR-3 cable not included.

Connecting the Microphone

1. Connect the other end of the XLR-3 cable to the input of a mixing console, power amplifier, audio interface, or other audio equipment.
2. Before use, set the system volume to a low level, then gradually increase it to an appropriate level to avoid excessive sound pressure levels that may damage the loudspeakers.

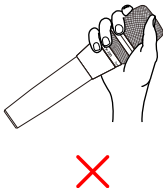


Note: Ensure that all connected equipment is properly grounded and complies with local safety regulations.

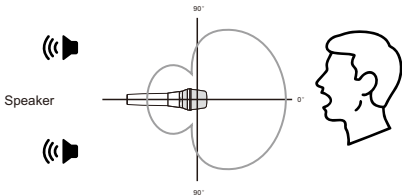
Operating the Microphone

Handheld Microphone

1. To avoid feedback and take full advantage of the microphone's polar pattern, do not cover the microphone grille with your hand.

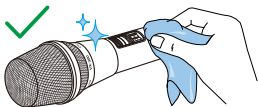


2. Position the microphone behind the loudspeakers to preserve sound quality and effectively reduce the risk of acoustic feedback. Microphone placement should be tested prior to performance.

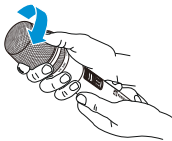
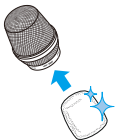
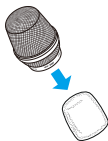
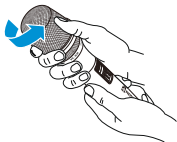


Cleaning the Microphone

1. Clean the microphone housing using a dry, soft, lint-free cloth.



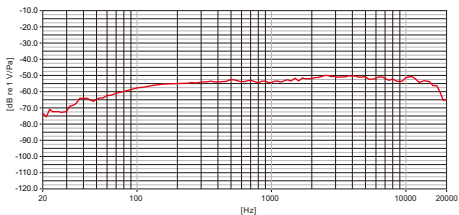
2. Remove the capsule module to clean the grille. Use a soft brush to gently remove dust, then rinse the internal windscreen with clean water and allow it to air dry completely before reassembly.



Specifications

Capsule Type:	Dynamic
Voice Coil Material:	Aluminum
Magnet Type:	Neodymium
Polar Pattern:	Supercardioid
Frequency Response:	50 Hz - 18 kHz
Sensitivity:	-54 ± 3 dBV/Pa
Output Impedance:	300 Ω ± 30% (at 1 kHz)
Output Connector:	3-pin XLR male connector
Switch:	Magnetic switch
Dimensions:	Ø: 52 mm (2.04 in.) L: 193 mm (7.59 in.)
Weight:	360 g

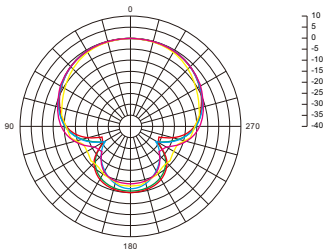
Frequency Response



Polar Pattern

Frequency

- 1000
- 2000
- 4000
- 8000
- 500



Usage Tips

- Adjust the microphone angle so that it is aimed directly at the sound source.
- Position the microphone as close as possible to the sound source to achieve a clean, direct sound and maximize gain before feedback.
- Be aware of the proximity effect: the closer the microphone is to the sound source, the greater the low-frequency response. Use this effect to enhance bass when desired, or increase the distance when it is not needed.
- Minimum Microphone Principle: Use a single microphone per sound source to minimize the risk of feedback.
- Position the microphone behind the main loudspeakers to reduce the likelihood of feedback.
- Multiple microphone applications: when using multiple microphones (e.g., choir miking), follow the “3:1 rule”—the distance between microphones should be at least three times the distance from each microphone to its respective sound source.
- The VX-300 features a supercardioid polar pattern, with maximum sensitivity to sound sources directly in front and reduced pickup from the sides and rear.
- Use this characteristic to effectively isolate other stage sources and reduce crosstalk.

Troubleshooting

Problem	Possible Cause	Solution
No signal output	XLR cable not properly connected	Check that both ends of the cable are securely connected
	Mixer or audio interface channel not enabled	Ensure the corresponding channel on the mixer or audio interface is enabled
	Damaged cable	Replace the XLR cable and retest
Low output level	Gain set too low	Adjust the preamp or mixer gain
	Microphone too far from the sound source	Reduce the distance between the microphone and the sound source
Distorted sound	Input level too high	Reduce preamp gain or lower the source level
	Microphone overloaded	Increase the distance between the microphone and high SPL sources
Hum or Noise	Poor grounding	Ensure proper grounding of the equipment and use balanced connections
	Electromagnetic interference	Keep away from power cables, transformers, and other sources of interference
Feedback	Microphone facing the loudspeaker	Position the microphone so it faces away from the loudspeaker
	Gain too high	Reduce overall system gain or apply EQ to attenuate feedback-prone frequencies

Precautions



Risk of Damage

Please ensure that the equipment connected to the microphone complies with local safety regulations and is properly grounded.

Important Safety Instructions

- Read these safety instructions carefully before installing and operating the equipment.
- Keep this user manual for future reference.
- Do not expose the microphone to extreme temperatures, high humidity, or direct sunlight.
- Do not subject the microphone to strong impact or drop it.
- Do not attempt to disassemble the microphone housing. There are no user-serviceable parts inside.
- Operating temperature: -20°C to 55°C
- Storage temperature: -30°C to 60°C
- Relative humidity: 0% to 95% (non-condensing)
- Ensure all audio equipment is properly connected before powering on.
- Do not use the audio equipment during thunderstorms.
- Store the product in a dry and well-ventilated environment.
- Do not apply excessive pressure or place heavy objects on the product.
- When connecting or disconnecting the XLR-3 cable, ensure the equipment is powered off or the volume is set to minimum level.
- Check the grille for dents or deformation. If severely damaged, contact an authorized service center.

Maintenance and Care

- After each use, clean the microphone housing using a dry, soft, lint-free cloth and store it in the supplied pouch or a protective storage case.
- Do not use chemical solvents, alcohol, or abrasive cleaners on the microphone.
- Regularly inspect the gold-plated contacts of the XLR-3 connector for oxidation or contamination. If necessary, gently clean them using a dedicated electronic contact cleaner.

Support

If you experience any issues during operation or have any questions, please contact your authorized dealer for technical support.

Relacart Customer Service Center:
<https://www.relacart.com/contact-us/>

For authorized service, please contact your dealer. Any unauthorized disassembly or repair may void the warranty.

Certifications

Meets essential requirements of the following European Directives:

- WEEE Directive 2012/19/EU
- RED Directive 2014/53/EU
- RoHS Directive 2015/863/EU

Note: Please follow your regional recycling regulations for electronic waste.

CE Notice

Relacart Electronics Co., Ltd. hereby declares that this product is in compliance with the essential requirements and other relevant provisions of applicable EU directives.

The full text of the EU declaration of conformity is available at the following site: <https://www.relacart.com/declaration-of-conformity/>





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※ Technical specifications are subject to change without prior notice.

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